### PATENT COOPERATION TREATY

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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference BW40F	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/IT2004/000643	International filing date (day/month/year) 23.11.2004	Priority date (day/month/year) 03.12.2003
International Patent Classification (IPC) or no A61F13/36	Lational classification and IPC	
Applicant MICRO TECH S.R.L. et al.		
]	is interest to the applicant according to All	by this International Preliminary Examining icle 36.
2. This REPORT consists of a total o	f 5 sheets, including this cover sheet.	
3. This report is also accompanied by	y ANNEXES, comprising:	
a. 🗵 sent to the applicant and to	the International Bureau) a total of 3 s	heets, as follows:
sneets of the description and/or sheets containin Administrative Instruction	on, claims and/or drawings which have bug rectifications authorized by this Authon ons).	een amended and are the basis of this report rity (see Rule 70.16 and Section 607 of the
☐ sheets which supersed beyond the disclosure i Supplemental Box.	e earlier sheets, but <b>w</b> hich this Authority n the international ap <b>p</b> lication as filed, a	considers contain an amendment that goes s indicated in item 4 of Box No. I and the
Box Relating to Sequence L	isting (see Section 802 of the Administra	umber of electronic carrier(s)) , containing a form only, as indicated in the Supplemental ative Instructions).
<ol> <li>This report contains indications related</li> </ol>	ating to the following items:	
Box No. I Basis of the opini	on	
☐ Box No. II Priority		
☐ Box No. III Non-establishmer	nt of opinion with regard to novelty, inver	Tive step and industrial applicability
DOX NO. 14 Lack of unity of in	vention	otep and industrial applicability
	ent under Article 35(2) with regard to no one and explanations supporting such s	velty, inventive step or industrial . tatement
☐ Box No. Vi Certain document	ts cited	
☐ Box No. VII Certain defects in	the international application	
□ Box No. VIII Certain observatio	ons on the international application	
Date of submission of the demand	Date of completion	of this report
29.09.2005	13.02.2006	
Name and mailing address of the international preliminary examining authority:	Authorized Officer	
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656	epmu d Hamann, J	A supplied to the supplied to
Fax: +49 89 2399 - 4465	Telephone No. +49	89 2399-7046

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IT2004/000643

_	Box No. I Basis of the report	rt
<ol> <li>With regard to the language, this report is based on the international application in the language, unless otherwise indicated under this item.</li> </ol>		nis report is based on the international application in the language in which it wa d under this item.
	This report is based on training which is the language of a	nslations from the original language into the following language , translation furnished for the purposes of:
	publication of the internal	der Rules 12.3 and 23.1(b)) ational application (under Rule 12.4) v examination (under Rules 55.2 and/or 55.3)
2	<ol> <li>With regard to the elements* of have been furnished to the rece report as "originally filed" and a</li> </ol>	f the international application, this report is based on (replacement sheets which eiving Office in response to an invitation under Article 14 are referred to in this re not annexed to this report):
	Description, Pages	
	1-7	as originally filed
	Claims, Numbers	
	1-12	received on 29.09.2005 with letter of 28.09.2005
	Drawings, Sheets	
	1/2, 2/2	as originally filed
	☐ a sequence listing and/or ar	ny related table(s) - see Supplemental Box Relating to Sequence Listing
3.	.   The amendments have resu	ulted in the cancellation of:
	☐ the description, pages☐ the claims, Nos.	
	☐ the drawings, sheets/figs	
	☐ the sequence listing (spe ☐ any table(s) related to se	equence listing (specify):
	☐ This report has been establi had not been made, since they h Supplemental Box (Rule 70.2(c))	ished as if (some of) the amendments annexed to this report and listed below have been considered to go beyond the disclosure as filed, as indicated in the ).
	☐ the description, pages ☐ the claims, Nos.	
	☐ the drawings, sheets/figs	
	☐ the sequence listing <i>(spe</i> ☐ any table(s) related to se	ecity): equence listing (specify):
	* If item 4 applies, so	ome or all of these sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IT2004/000643

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

2-5,7-12

No:

Claims

Inventive step (IS)

Yes: Claims

2-5,8,9,11,12

No:

Claims

1,6,7,10

Industrial applicability (IA)

Yes: Claims

1-12

1,6

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

#### Re Item V.

1 Reference is made to the following documents:

D1: US 5,203,767 A (CLOYD ET AL) 20 April 1993 (1993-04-20)

D2: US 3,698,393 A (CHARLES E. STONE) 17 October 1972 (1972-10-17)

D3: US 5,310,407 A (CASALE ET AL) 10 May 1994 (1994-05-10)

- The application does not meet the requirements of Article 6 PCT, because **claims 1** and 10 are not clear.
- 2.1 In claims 1 and 10 it is not clear whether the plug radio-opaque location means forms part of the subject-matter of the claim.
- 2.2 The sizes of the plug and the plug radio-opaque location means according to claim 10 are defined with reference to a tubular body which is neither part of the subject-matter of the claim nor standarised (PCT-Guidelines 5.37).
- The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1 and 6 is not new in the sense of Article 33(2) PCT.

  Document D1 discloses an endoscopic surgery device according to these claims with: absorbing plug: gauze peanut 22

tubular body: trocar 16

plunger: forceps 38

radio-opaque location means: tether 24, column 2, lines 51-54 (not disc 26 or ring

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gripping means: jaws of forceps 38

The forceps 38 is suitable for pushing the gauze peanut 22 outside of the trocar and for gripping the tether 24.

The present application does not meet the criteria of Article 33(1) PCT, because the subject matter of claims 7 and 10 does not involve an inventive step in the sense

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/IT2004/000643

of Article 33(3)PCT:

- 4.1 Providing the trocar 16 of document **D1** with ring type handle means, and thereby arriving at the subject-matter of **claim 7**, is just a design option.
- 4.2 Since the dimensions of the tubular body in independent claim 10 are arbitrary, the subject-matter of this claim differs from the disclosure of **D2** (or most of the other documents cited in the International Search Report) only in that the absorbing plug has haemostatic properties. An absorbing plug with haemostatic properties, however, is known from document **D3** (see column 3, lines 44-46).

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#### - 8 -CLAIMS

- 1. An endoscopic surgery device for the removal of organic fluids from a body cavity, comprising an absorbing plug (8) and a tubular body (1), suitable for slidingly housing said plug (8), and a plunger (4) slidingly engageable in said tubular body to push said plug outside thereof and place it at the surgical site, said tubular body (1) and plunger (4) having distal ends (1a, 4a) and proximal end (1b, 4b), characterised in that said plug is connected to plug radio-opaque location means (9,10)floating relation to the internal organs, blood or other liquids present at the surgical site, said location means having a size such as to let them pass through said tubular body, and that at the distal end (4a) of said plunger (4) means (5) are provided for gripping said location means to recover said plug after use by retracting it inside said tubular body.
  - 2. Device according to claim 1, wherein said location means comprise at least one ball (10) of lower specific weight than that of the internal organs, blood or other liquid present at the surgical site, connected to said plug (8) by a wire (9).
  - 3. Device according to claim 2, wherein said at least one ball (10) has smaller dimensions than the internal ones of said tubular body (1)
  - 4. Device according to any one of the previous claims, wherein said plunger comprises a stem (4) and said gripping means comprises a loop (5) at the distal end (4a) of said stem (4), said loop being wider than said ball (10).
  - 5. Device according to claim 4, wherein said loop (5) is formed by a thin plate bent and connected by its ends to

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the distal end of said stem.

- 6. Device according to any one of the previous claims, wherein at the proximal ends (1b, 4b) of said tubular body (1) and of said stem (4) handle means (3a, 3b, 7) are provided for actuating axial sliding of said stem in one direction or the other as a result of corresponding pressure actions exerted simultaneously in opposite directions on said handle means
- 7. Device according to claim 6, wherein said handle means are of the ring type to allow engaging of the fingers of a user.
  - 8. Device according to claim 7, wherein at the proximal end (1b) of said tubular body (1) a pair of handle rings (3a, 3b) are provided, diametrically opposite and coplanar thereto, while at the proximal end (4b) of said stem (4) an handle ring (7) is provided, co-planar thereto.
  - 9. Device according to any one of the previous claims, wherein the ball surface is white or coloured with a light colour.
- 10.Organic liquid absorbing plug for surgical comprising an elongated body in a material with absorbent use and haemostatic properties suitable for being placed at a surgical site in a body cavity through a tubular body and characterised in that said elongated body is connected to 25 plug radio-opaque location means (9, 10), floating in relation to the internal organs, blood or other liquids present at the surgical site, said location means having a size such as to let them pass through said tubular body.
- 30 11.Organic liquid absorbing plug according to claim 10, wherein said location means comprise at least one ball (10) with lower specific weight than that of internal

REST AVAILABLE COF?

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- 10 -

organs, blood or another liquid present at the surgical site, connected to said plug by a wire (9).

12.Organic liquid absorbing plug according to claim 10 or 11, wherein the ball surface is white or coloured with a light colour.